

Dr. Fixit Pidigrout 10M

A HIGH STRENGTH, NON – SHRINK FREE FLOW GROUT FOR FOUNDATION

Description

Dr. Fixit Pidigrout 10M is a high strength non – shrink free flow grout for foundation. It is ready to use, free flowing, high strength (compressive strength can reach to 800 ksc at 28 days) and dynamic load stable cementitious grout.

Dr. Fixit Pidigrout 10M is passed the standard CRD-C-621-183 และ ASTM C-1107 It is uniform blend of finely graded silica aggregate; select Portland cement, expansion agent and other admixtures (Green Super plasticizer).

Rate of uses

- Yield 12.5 lt. per 25 kg. bag

Area of Application:

- Heavy machineries & equipment's foundation, bridge bearing pad & structural columns in pre-cast crane rail construction grouting, boiler foundation & turbine generator bearing plates.

Method of Application

1. PRE APPLICATION CHECK LIST

- Arrange for PAN mixer for mixing of grout and storage vessel for storing & placement of the grout after mixing.
- Before the grouting starts ensure availability of potable mixing water, sufficient which manpower, mould release agent, steel rod for mixing the grouts, 100-150 mm sized stones/pebbles, strong form work of wood/metal.
- Calculate the grout quantity required as per the grouting volume and keep 10% extra quantity to take care of wastage and contingencies.

2. SURFACE PREPARATION

- Clean the surface with wire brush to remove loose particles & hidden dirt on the concrete surface.
- Wash the grouting area with water and saturate it for at least 24 hours before starting the grouting operation.
- Align the base plate using level bottles. Fix shuttering and grout pouring hopper. Seal the shuttering joints using high consistency grout (Fast setting) or sealant. Allow it to set for minimum 4-5 hours.

3. MIXING

- Wet the inside of the mechanically powered paddled/drum type grout mixer or container with water, before starting to mix the first batch of Dr. Fixit Pidigrout 10M.
- According to the grout consistency requirement, the water addition for 25 kg of Dr. Fixit Pidigrout 10M should be approximately 4.0 to 4.50 liters for flow able consistency and 3.25 to 3.5 liters for dry & towable consistency.
- Add approx. 85 - 90% of measured water (as per water to powder ratio depending upon required consistency) into the mixer and then slowly add the contents of Dr. Fixit Pidigrout 10M pack. Mix for 1-2 minutes and add remaining approx. 15 - 10% of measured water.
- Allow to mix for additional 2-3 minutes until a smooth, uniform homogeneous mix is achieved.

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4. APPLICATION

- Pour the prepared mix into the required area immediately, taking care that it is poured from one end only, with a watertight shuttering in place.
- For large pours, the grouting operation shall be done in steps, with a high head or by a grouting pump, to avoid air entrapment.
- Do not disturb the poured grout for at least 24 hours.

5. CURING

- Cover the exposed areas of grout by wet burlap (jute bag), ponding or curing compound to prevent cracking due to heat generation during curing of grout.

Precautions & Limitations:

- Do not add extra water in any circumstances.
- Ensure that the shuttering is leak proof.
- Soak the area with water for 24 hours before grouting.
- For greater depth fill (more than 75 mm.) clean, prewashed, crushed 10 mm. down aggregates can be added (approximate 10 kg/25 kg bag of Dr. Fixit Pidigrout 10M)
- Do not undertake grouting in high temperature conditions.

Technical Information

Properties	Standard/Test Method	Result
Fluidity test by using J-14 funnel Initial – 60 mins.	JSCE-F531	7-10 second
Bleeding of concrete	ASTM C232	No. Bleeding
Compressive strength of mortar - at time 24 hrs. - at time 3 day. - at time 7 day. - at time 28 day.	ASTM C109	> 350 ksc. > 500 ksc. > 550 ksc. > 800 ksc.
Marking and Curing of concrete -For pour -For coat	ASTM C 192	0.16 - 0.17 % 0.13 - 0.14 %
-Expansion -Shrinkage	ASTM C827	< 0.53% 0 %
Time of setting of motar by modified vicat needle. - Initial setting - Final setting	ASTM C807	> 5 hrs. < 8 hrs.

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Packing

- 25 kg/bag

Storage

- Maximum 1 year in sealed container kept under shed area

Health & Safety Precautions

- As with all chemical products, caution should always be exercised.
- Protective clothing such as gloves and goggles should be worn.
- Treat any contact to the skin or eyes with fresh water immediately.
- Should any of the products be accidentally swallowed, do not induce vomiting but call for medical assistance immediately.

Disclaimer

The product information and the recommendations relating to the application and end-use of Dr.Fixit products, are based on Dr.Fixit's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Dr.Fixit's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Dr.Fixit reserves the right to change the properties of its products without notice, so the company does not assume liability of any legal from this product information.



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